

U.S. Patent Application Serial No.09/635, 16  
Attorney Docket No. 05516.056002

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Sujian Huang *et al.* Art Unit : 2128  
Serial No.: 09/635,116 Examiner : F. O. Ferris III  
Filed : August 9, 2000 Confirmation No.: 8958  
Title : METHOD FOR SIMULATING DRILLING OR ROLLER CONE BITS AND ITS  
APPLICATION TO ROLLER CONE BIT DESIGN AND PERFORMANCE

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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SUPPLEMENTAL DECLARATION UNDER 37 C.F.R. §1.131

We, Christopher Cawthorne and Sujian Huang hereby declare that:

1. We are the sole inventors of the present application, *i.e.*, U.S. Patent Application No. 09/635,116.
2. We are currently employed by Smith International, Inc. ("Smith"), who is the assignee of the present application.
3. We conceived and worked on the reduction to practice of the primary embodiment of the invention in the present application, which is a software platform known as Integrated Dynamic Engineering and Analysis System ("IDEAS").
4. The invention in the present application was reduced to practice prior to August 31, 1998, the earliest filing dates of U.S. Patent Nos. 6,213,225 and 6,095,262.
5. The reduction to practice prior to August 31, 1998 of the present application is evidenced by at least the following Exhibit F.<sup>1</sup> These exhibits represent a cross-section of files of Smith employees that developed and/or used IDEAS.

<sup>1</sup> Exhibits A-E in the inventor's previous declaration also are believed to show all necessary information.

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While a significant amount of additional information exists, the attached exhibit clearly illustrate that we were in possession of the claimed invention well before August 31, 1998

- Exhibit F shows the use of a single insert tester that was used to develop axial force data for use with embodiments of the present invention.
- The above Exhibit clearly discloses that each and every element of the claims of U.S. Patent Application Serial No. 09/635,116 was within our possession prior to the effective dates of U.S. Patent Nos. 6,213,225 and 6,095,262, namely, August 31, 1998.

6. The reduction to practice of the invention in the present application continued to be diligently worked on and/or used from, at least, the dates established by Exhibits A-E, previously provided, and Exhibit F, until, at least, the date of constructive reduction to practice was established by the filing of U.S. Patent No. 09/524,088 on March 13, 2000. Additional documentation supporting this statement is found at Exhibit G.

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exhibit F is provided at the request of the Examiner.

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I further declare that all statements made herein of my own knowledge are true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such a willful false statements may jeopardize the validity of the application of any patent issued thereon.

Respectfully submitted,



Sujian Huang

Date: 5/24/04

Date: \_\_\_\_\_

Chris Cawthorne

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I further declare that all statements made herein of my own knowledge are true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such a willful false statements may jeopardize the validity of the application of any patent issued thereon.

Respectfully submitted,

Date: \_\_\_\_\_

Date: 5/24/04

Sujian Huang  
  
Chris Cawthorne

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